TP700
.A5

INDEX---VOL. XI.

☞ A star (*) denotes illustrated articles.

A

April, Oil Yield in, 22.
Atlantic Cable, How it is Worked—The Process of Ocean Telegraphing, 53.
Atlantic Telegraph, An American, 63.
Anaesthetic, A New—Chloralhydrat, 145.
Air, Night, 133.

B

Boiler, Engine Efficiency Independent of, 65.
Bridge, The East River, 81, 132.
Boilers, To prevent the Scaling of Locomotive, 86.

C

Coal, The Utilization of Small, 20.
Cable, The French Telegraph, 38.
Cylinders, Utilizing Waste Steam from, 38.
Carburetter, New Gas, 50.
Coal, The Production of Oil from, 53,
Canal, The Darien, 68, 134,
Coal, Prices of Gas, 39, 60, 134, 150.
Carbon, Oxy-sulphide of, 85.
Canal, Suez, 97, 134.
Croton Supply, The, 117.
Coal Market, The, 132.
Chilian Coal, Experiment with, 132.
Compresion Casting, Metallic—A New Process, 133.
Coal Mines, Lighting, 133.
Correspondents, Answers to, 24, 77, 168, 185.
Correspondence—
Explosion of the Meter at the Cincinnatti Gas Works, 11.
The Gas Explosion at Cincinnati, 21.
Morandia's Patent Lamp Lighter, 21.
Information Wanted, 21
A Problem to be Solved, 21.
About Water Filters, 37.
Obstruction in Gas holders, 37.
Easton (Pa.) Gas Works, 38.
Density of Water, 38.
A Tilt with a Correspondent, 52.
Compressibility of Water, 53.
Complimentary, 69.
A Visit to Madison Gas Works, 101.
About Gas Meters, 102.
Report of the Ironton (Ohio) Gas Co, 102.
The Teleiconography an American Invention, 102.
Setting of Retorts—Prospectus of a Work on the Subject, 117,
Information Wanted, 181.
Commendatory, 181.

D

Dutch Liquid, Preparation of Olefiant Gas and the so-called, 1.
Distillation of Rosin, Preliminary Notes on the Products of the Destructive, 66.
Durangite—A New Material, 85.
Disaster, The Milwaukee—Inflammable Gases, 161.
Discovery, Scientific, 87.

E

Editorials—
A New Volume, 8.
Gas Legislation, 8.
The Oxyhydrogen Light, 8.
Special Notice—Berry's Premium Fire Proof Brick, 9.
Graham's Anti-Freezing Lamp Post, 9
Oxyhydrogen Light—Is it a Success? 24.
The Massachusetts Legislative Fiasco, 24.
Hearth and Home, 24.
On Ventilation, 40.
The Horsford Invention, 40.
Our Chemical Repertory, 40.
Explosion of Oxyhydrogen Gas, 41.
Engravings For Illuminating New Inventions, 41.
Methods of Ventilation, 56.
The Niblo's Garden Explosion, 57.
Profitable Patent, 57.
Inspection of Gas, 57.
Report of the Portland Gas Light Company, 57.
The Terre Haute Gas Light Co, 57.
Fryer's Pneumatic Pump, 57.
The Am. Association for the Advancement of Science at Salem, Mass., 72.
Our Reports of the Salem Meeting of the Am. Association, 88.
Heating Buildings by Gas, 88.
The Philadelphia Photographer, 88.
On the Theories of Force and Motion, 104.
The American Institute Fair, 104.
Scientific Intelligence for the American Market (Supplementary not Complementary), 120.
A New Method of Making Gas, 120.
Papers, etc., Received, 121.
To the Gas Profession, 121.
More Murders by Kerosene, 131.
Specical Notice, 136, 185.
Solar and Celestial Chemistry, 136.
Matter and Force, 137.
Brick and Brick Manufacture, etc, 152,
Municipal Conveniences, 152.
Obituary—Death of Paul A. Sabbaton, 155.
To Our Patrons, 153.
To Our Readers and the Public, 168.
Foreign and American Patents, 168.
A Word to the Wise, 168.
A New Process of Gas Manufacture, 168,
The New Year and Volume, 168.
The Age of Our Eerth, 38.
Telegraph Enterprise, 49.
The Patent Laws of England, 52.
Society of Practical Engineers, 68, 100, 166.
Remember, 184.
Foreign Improvements in Gas Apparatus, 184.
The Suez Canal, 184.
Foreign Gas Matters, 185.
Wood's Household Magazine, 185

F

Fire, The Sun a Flaming, 182.

G

* Gas Generation, Something New in Portable, 1.
* Gas Machine, The Latest, 17.
Gas Items, Foreign, 22.
Gas Company, Suit against a, 22.
Gas Items, Local, 22.
Gas Light, The Portable, 38.
Gas Light Company, Report of the Portland, 52.
Gas, Inspection of, 52.
Gaslighting, Smedberg's Synopsis of, 53.
Germany, a Cable to, 53.
Glycerine, Protected Nitro, 68.
Gas Manufacture, New Process of, 69.
*Gas Stove, The Cambridge, 97.
Gas Burner, Spring Valve, 100
* Gas Machine, Empire State, 113.
Gas, Generating, 133.
Guide, Dunbar's Gas Retort Setters, 134, 150, 166, 182.
Gas Fuel Company, The Brazilian, 145.
* Gas Machine, The Maxim, 161.
Glass, Chemical Weather, 162.
Gas in England, The Price of, 187.
Gas Works, New, in Lawrence, Kansas, 181.

H

Heat, The Stars a Source of, 36.

I

Imbroglio, The Massachusetts, 8.
Indianapolis, The Gas Qustion at, 36.
Island, Coal in Rhode, 164.

L

Light, Petroleum Lamp, 21.
Light, The Magnesium, 52.
Light, The Zirconia, 69.
Light, Tyndall on, 70.
Light-Houses, Gas for, 101.
* Lamp Post, Bronson's Improved—Patented, 129.
Light, Photographing, 129.
Light, The Velocity of 130.

M

* Machine, Upright Shaping, 33.
Moves, The World, 38.
Mountains, Coal in the, 50.
Meteorites, Explosion of, 65.
* Machine, Shaping, 65.
Miscellanea, 53, 70, 102, 118, 166.
Methods of Water Analysis and in Sewage Contamination, Dr. Letheby on the, 50.
*Moulding Machine, Four Side, 81.
Moon, The Heat of the, 130.
Mines, Ventilation of, 116.
Method,, A New and Economical, for Effecting the Extrication and Condensation of Ammonia from Gas Liquor, 148, 180.

N

Nickels, Death of Professor, 38.

O

Oxygen, Effects of a Little, 39.

P

*Pump, Fryer's Pneumatic, 49.
Parsons, Gas and, 58.
Pennsylvania, Petroleum in, 66.
Patent Office, List of Examiners now in the, 69.
Pressure, Combustion Under, 69.
Patents, Recent American, 70, 182.
Process, New Oxygen, 86.
Pipes, Heavy Water, 113.
Patent Office Drawings, Photographing the, 116.
Pipes, The Use of Lead Water, 117.
*Pump, Blake's Patent Steam, 145.
Plumbers, The Water Board and, 165.
Pipes, New Mode of Laying and Jointing, 60.
Patent Cases, Equity in, 182.

R

Repertory, Chemical, 18, 34, 51, 67, 82, 98, 114, 130, 146, 162, 178.
Report, Oil, 33.
Reservoir, Ridgwood, 132.

S

Steel Manufacture, Bessemer, 52.
Steam Carriage, The Aerial, 66.
Suez Canal, Opening of the, 68.
Sounding Flames, Experiments on, 70.
Steam Engines, A Revolution in, 65.
Steam Engine, Improved, 102,
Steam Boiler, The New, 113.
Sun and Earth, The, 118.
Steamer, Raising a, 134.
Sewerage, Our City, 149.

T

Telegraph, The Indo-European, 22.
Traffic, Pacific Railroad, 22.
Teleiconography, 86.
Track, Lighting up the, 86.
Tubes, The Friction of Water in, 129.
Tunnel, The Sutro, 166.

U

United States, Coal and Iron in the, 69.

W

Water, Impure, 18.
Wells, The Petroleum, 38.
Wood, Improved Device for Kyanizing, 117.
Waste Products, Manufacture of Illuminating Gas from Coal, and the Uitllization of the, 149.
War, Torpedoes in, 150.
*Water Detector, Ashcroft's Improved, 187.

TP700
.A5

INDEX---VOL. XI.

☞ A star (*) denotes illustrated articles.

A

April, Oil Yield in, 22.
Atlantic Cable, How it is Worked—The Process of Ocean Telegraphing, 53.
Atlantic Telegraph, An American, 63.
Anaesthetic, A New—Chloralhydrat, 145.
Air, Night, 133.

B

Boiler, Engine Efficiency Independent of, 65.
Bridge, The East River, 81, 132.
Boilers, To prevent the Scaling of Locomotive, 86.

C

Coal, The Utilization of Small, 20.
Cable, The French Telegraph, 38.
Cylinders, Utilizing Waste Steam from, 38.
Carburetter, New Gas, 50.
Coal, The Production of Oil from, 53,
Canal, The Darien, 68, 134,
Coal, Prices of Gas, 39, 60, 134, 150.
Carbon, Oxy-sulphide of, 85.
Canal, Suez, 97, 134.
Croton Supply, The, 117.
Coal Market, The, 132.
Chilian Coal, Experiment with, 132.
Compresion Casting, Metallic—A New Process, 133.
Coal Mines, Lighting, 133.
Correspondents, Answers to, 24, 77, 168, 185.
Correspondence—
Explosion of the Meter at the Cincinnatti Gas Works, 11.
The Gas Explosion at Cincinnati, 21.
Morandia's Patent Lamp Lighter, 21.
Information Wanted, 21
A Problem to be Solved, 21.
About Water Filters, 37.
Obstruction in Gas holders, 37.
Easton (Pa.) Gas Works, 38.
Density of Water, 38.
A Tilt with a Correspondent, 52.
Compressibility of Water, 53.
Complimentary, 69.
A Visit to Madison Gas Works, 101.
About Gas Meters, 102.
Report of the Ironton (Ohio) Gas Co, 102.
The Teleiconography an American Invention, 102.
Setting of Retorts—Prospectus of a Work on the Subject, 117,
Information Wanted, 181.
Commendatory, 181.

D

Dutch Liquid, Preparation of Olefiant Gas and the so-called, 1.
Distillation of Rosin, Preliminary Notes on the Products of the Destructive, 66.
Durangite—A New Material, 85.
Disaster, The Milwaukee—Inflammable Gases, 161.
Discovery, Scientific, 87.

E

Editorials—
A New Volume, 8.
Gas Legislation, 8.
The Oxyhydrogen Light, 8.
Special Notice—Berry's Premium Fire Proof Brick, 9.
Graham's Anti-Freezing Lamp Post, 9
Oxyhydrogen Light—Is it a Success? 24.
The Massachusetts Legislative Fiasco, 24.
Hearth and Home, 24.
On Ventilation, 40.
The Horsford Invention, 40.
Our Chemical Repertory, 40.
Explosion of Oxyhydrogen Gas, 41.
Engravings For Illuminating New Inventions, 41.
Methods of Ventilation, 56.
The Niblo's Garden Explosion, 57.
Profitable Patent, 57.
Inspection of Gas, 57.
Report of the Portland Gas Light Company, 57.
The Terre Haute Gas Light Co, 57.
Fryer's Pneumatic Pump, 57.
The Am. Association for the Advancement of Science at Salem, Mass., 72.
Our Reports of the Salem Meeting of the Am. Association, 88.
Heating Buildings by Gas, 88.
The Philadelphia Photographer, 88.
On the Theories of Force and Motion, 104.
The American Institute Fair, 104.
Scientific Intelligence for the American Market (Supplementary not Complementary), 120.
A New Method of Making Gas, 120.
Papers, etc., Received, 121.
To the Gas Profession, 121.
More Murders by Kerosene, 131.
Specical Notice, 136, 185.
Solar and Celestial Chemistry, 136.
Matter and Force, 137.
Brick and Brick Manufacture, etc, 152,
Municipal Conveniences, 152.
Obituary—Death of Paul A. Sabbaton, 155.
To Our Patrons, 153.
To Our Readers and the Public, 168.
Foreign and American Patents, 168.
A Word to the Wise, 168.
A New Process of Gas Manufacture, 168,
The New Year and Volume, 168.
The Age of Our Eerth, 38.
Telegraph Enterprise, 49.
The Patent Laws of England, 52.
Society of Practical Engineers, 68, 100, 166.
Remember, 184.
Foreign Improvements in Gas Apparatus, 184.
The Suez Canal, 184.
Foreign Gas Matters, 185.
Wood's Household Magazine, 185

F

Fire, The Sun a Flaming, 182.

G

* Gas Generation, Something New in Portable, 1.
* Gas Machine, The Latest, 17.
Gas Items, Foreign, 22.
Gas Company, Suit against a, 22.
Gas Items, Local, 22.
Gas Light, The Portable, 38.
Gas Light Company, Report of the Portland, 52.
Gas, Inspection of, 52.
Gaslighting, Smedberg's Synopsis of, 53.
Germany, a Cable to, 53.
Glycerine, Protected Nitro, 68.
Gas Manufacture, New Process of, 69.
*Gas Stove, The Cambridge, 97.
Gas Burner, Spring Valve, 100
* Gas Machine, Empire State, 113.
Gas, Generating, 133.
Guide, Dunbar's Gas Retort Setters, 134, 150, 166, 182.
Gas Fuel Company, The Brazilian, 145.
* Gas Machine, The Maxim, 161.
Glass, Chemical Weather, 162.
Gas in England, The Price of, 187.
Gas Works, New, in Lawrence, Kansas, 181.

H

Heat, The Stars a Source of, 36.

I

Imbroglio, The Massachusetts, 8.
Indianapolis, The Gas Qustion at, 36.
Island, Coal in Rhode, 164.

L

Light, Petroleum Lamp, 21.
Light, The Magnesium, 52.
Light, The Zirconia, 69.
Light, Tyndall on, 70.
Light-Houses, Gas for, 101.
* Lamp Post, Bronson's Improved—Patented, 129.
Light, Photographing, 129.
Light, The Velocity of 130.

M

* Machine, Upright Shaping, 33.
Moves, The World, 38.
Mountains, Coal in the, 50.
Meteorites, Explosion of, 65.
* Machine, Shaping, 65.
Miscellanea, 53, 70, 102, 118, 166.
Methods of Water Analysis and in Sewage Contamination, Dr. Letheby on the, 50.
*Moulding Machine, Four Side, 81.
Moon, The Heat of the, 130.
Mines, Ventilation of, 116.
Method,, A New and Economical, for Effecting the Extrication and Condensation of Ammonia from Gas Liquor, 148, 180.

N

Nickels, Death of Professor, 38.

O

Oxygen, Effects of a Little, 39.

P

*Pump, Fryer's Pneumatic, 49.
Parsons, Gas and, 58.
Pennsylvania, Petroleum in, 66.
Patent Office, List of Examiners now in the, 69.
Pressure, Combustion Under, 69.
Patents, Recent American, 70, 182.
Process, New Oxygen, 86.
Pipes, Heavy Water, 113.
Patent Office Drawings, Photographing the, 116.
Pipes, The Use of Lead Water, 117.
*Pump, Blake's Patent Steam, 145.
Plumbers, The Water Board and, 165.
Pipes, New Mode of Laying and Jointing, 60.
Patent Cases, Equity in, 182.

R

Repertory, Chemical, 18, 34, 51, 67, 82, 98, 114, 130, 146, 162, 178.
Report, Oil, 33.
Reservoir, Ridgwood, 132.

S

Steel Manufacture, Bessemer, 52.
Steam Carriage, The Aerial, 66.
Suez Canal, Opening of the, 68.
Sounding Flames, Experiments on, 70.
Steam Engines, A Revolution in, 65.
Steam Engine, Improved, 102,
Steam Boiler, The New, 113.
Sun and Earth, The, 118.
Steamer, Raising a, 134.
Sewerage, Our City, 149.

T

Telegraph, The Indo-European, 22.
Traffic, Pacific Railroad, 22.
Teleiconography, 86.
Track, Lighting up the, 86.
Tubes, The Friction of Water in, 129.
Tunnel, The Sutro, 166.

U

United States, Coal and Iron in the, 69.

W

Water, Impure, 18.
Wells, The Petroleum, 38.
Wood, Improved Device for Kyanizing, 117.
Waste Products, Manufacture of Illuminating Gas from Coal, and the Uitllization of the, 149.
War, Torpedoes in, 150.
*Water Detector, Ashcroft's Improved, 187.